



DENR Administrative Order
No. 2018 - 02

JAN 26 2018

Subject: Designation of the Upper Amburayan River System Water Quality Management Area and Creation of Its Governing Board

Pursuant to Section 5 of R.A. 9275 otherwise known as the Philippine Clean Water Act of 2004, DENR Administrative Order (DAO) No. 2005-10 or the Implementing Rules and Regulations of R.A. 9275, and DENR Memorandum Circular 2009-15 or Procedural Manual for the Designation of Water Quality Management Areas, and considering its critical importance to municipalities of Atok, Bakun, Buguias, Kapangan, Kibungan and Tublay and its communities in the Province of Benguet, the **Upper Amburayan River System is hereby designated as a Water Quality Management Area (WQMA).**

SECTION 1. Objectives and Policies. It is the policy of the State to pursue economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine waters. Pursuant to this policy statement, this Order aims to ensure water quality of the Upper Amburayan River System and its tributaries to make it a sustainable resource for the people of the municipalities of Atok, Bakun, Buguias, Kapangan, Kibungan and Tublay and its communities consistent with the following water quality management objectives:

- a) To improve the water quality of Upper Amburayan River System Water Quality Management Area and thereby contribute to the enhancement of the Province of Benguet as a source of water for irrigation and other agricultural uses and serve the best interest of the communities and stakeholders;
- b) To formulate a WQMA program which recognizes that water quality management issues are inherently related or cannot be detached from the concerns on water sources, ecological protection, water supply, public health and quality of life;
- c) To encourage, support, and mobilize civil society organizations and other sectors such as the academe and businesses engaged in environment-related activities, in efforts to organize and educate people in addressing pertinent environmental issues and problems in the WQMA;
- d) To promote inter-LGU and stakeholder collaboration and cooperation through coordinated efforts in protecting and sustaining acceptable quality of water in the Upper Amburayan River System; and
- e) To harness locally available resources to support rehabilitation and protection efforts of the Upper Amburayan River System WQMA.

SECTION 2. Coverage. The Upper Amburayan River System WQMA shall cover its natural or man-made tributaries that are within the WQMA boundary including the land embraced by the hydrologic unit identified through various maps. The WQMA has a total land area of 60,692.78 hectares.

The WQMA is bounded by the following geographic coordinates which are consistent with the map in Annex A:

Boundary Control Point	LGU with Jurisdiction		Latitude	Longitude
	Barangay	Municipality		
1	Bagu	Bakun	16° 54' 40.06" N	120° 41' 6.43" E
2	Bagu	Bakun	16° 53' 50.04" N	120° 40' 33.65" E
3	Bagu	Bakun	16° 52' 14.36" N	120° 40' 58.17" E
4	Bagu	Bakun	16° 51' 57.53" N	120° 41' 56.38" E
5	Sinacbat	Bakun	16° 50' 9.69" N	120° 42' 5.16" E
6	Dalipey	Bakun	16° 49' 52.62" N	120° 43' 11.11" E
7	Dalipey	Bakun	16° 48' 19.40" N	120° 43' 43.19" E
8	Dalipey	Bakun	16° 47' 17.74" N	120° 45' 20.90" E
9	Gambang	Bakun	16° 45' 42.84" N	120° 45' 54.67" E
10	Ampusongan	Bakun	16° 43' 15.99" N	120° 45' 56.08" E
11	Madaymen	Kibungan	16° 42' 49.81" N	120° 45' 39.76" E
12	Natubleng	Buguias	16° 41' 30.80" N	120° 47' 11.34" E
13	Cattubo	Atok	16° 39' 12.87" N	120° 47' 9.70" E
14	Cattubo	Atok	16° 39' 7.38" N	120° 46' 21.31" E
15	Cattubo	Atok	16° 37' 3.40" N	120° 45' 23.94" E
16	Cattubo	Atok	16° 36' 44.47" N	120° 45' 53.95" E
17	Abiang	Atok	16° 35' 35.65" N	120° 45' 37.23" E
18	Abiang	Atok	16° 35' 23.62" N	120° 45' 42.06" E
19	Abiang	Atok	16° 34' 40.52" N	120° 45' 5.50" E
20	Cattubo	Atok	16° 34' 5.86" N	120° 44' 9.32" E
21	Cattubo	Atok	16° 32' 52.13" N	120° 43' 32.07" E
22	Cattubo	Atok	16° 32' 50.73" N	120° 43' 6.60" E
23	Topdac	Atok	16° 32' 36.45" N	120° 42' 28.83" E
24	Caliking	Atok	16° 32' 4.93" N	120° 42' 16.36" E
25	Caliking	Atok	16° 31' 57.38" N	120° 42' 3.30" E
26	Caliking	Atok	16° 31' 45.28" N	120° 42' 18.65" E
27	Caliking	Atok	16° 31' 26.15" N	120° 42' 3.29" E
28	Caliking	Atok	16° 31' 6.85" N	120° 41' 28.85" E
29	Caliking	Atok	16° 30' 26.27" N	120° 41' 25.08" E
30	Ambassador	Tublay	16° 29' 48.02" N	120° 40' 45.51" E
31	Ambassador	Tublay	16° 29' 48.39" N	120° 40' 15.92" E
32	Ambassador	Tublay	16° 30' 5.29" N	120° 40' 4.73" E
33	Ambassador	Tublay	16° 29' 32.36" N	120° 38' 38.80" E
34	Daclan	Tublay	16° 30' 30.23" N	120° 38' 39.98" E
35	Ba-Ayan	Tublay	16° 31' 8.01" N	120° 38' 58.94" E
36	Ba-Ayan	Tublay	16° 31' 50.28" N	120° 39' 2.90" E
37	Ba-Ayan	Tublay	16° 31' 56.68" N	120° 38' 33.57" E

38	Ba-Ayan	Tublay	16° 31' 47.11" N	120° 38' 26.24" E
39	Ba-Ayan	Tublay	16° 31' 45.22" N	120° 38' 18.18" E
40	Ba-Ayan	Tublay	16° 31' 52.28" N	120° 37' 54.86" E
41	Ba-Ayan	Tublay	16° 32' 20.29" N	120° 37' 14.02" E
42	Datakan	Kapangan	16° 33' 0.79" N	120° 37' 14.09" E
43	Datakan	Kapangan	16° 33' 2.15" N	120° 37' 4.48" E
44	Datakan	Kapangan	16° 33' 12.55" N	120° 36' 57.27" E
45	Datakan	Kapangan	16° 33' 51.48" N	120° 37' 5.92" E
46	Datakan	Kapangan	16° 34' 2.00" N	120° 37' 19.54" E
47	Labueg	Kapangan	16° 34' 28.47" N	120° 37' 28.87" E
48	Labueg	Kapangan	16° 34' 47.10" N	120° 37' 15.11" E
49	Labueg	Kapangan	16° 34' 29.39" N	120° 36' 45.27" E
50	Poblacion Central	Kapangan	16° 34' 37.18" N	120° 35' 7.74" E
51	Poblacion Central	Kapangan	16° 34' 54.22" N	120° 34' 12.47" E
52	Sagubo	Kapangan	16° 37' 38.91" N	120° 33' 39.58" E
53	Sagubo	Kapangan	16° 37' 42.09" N	120° 33' 38.95" E
54	Sagubo	Kapangan	16° 37' 51.32" N	120° 33' 47.33" E
55	Sagubo	Kapangan	16° 39' 7.67" N	120° 34' 36.53" E
56	Sagubo	Kapangan	16° 39' 33.25" N	120° 34' 49.56" E
57	Pudong	Kapangan	16° 39' 35.44" N	120° 34' 58.61" E
58	Pudong	Kapangan	16° 39' 42.26" N	120° 35' 0.52" E
59	Pudong	Kapangan	16° 39' 47.14" N	120° 35' 4.06" E
60	Pudong	Kapangan	16° 39' 47.34" N	120° 35' 4.20" E
61	Pudong	Kapangan	16° 39' 55.54" N	120° 35' 13.37" E
62	Pudong	Kapangan	16° 39' 55.74" N	120° 35' 13.54" E
63	Pudong	Kapangan	16° 39' 57.23" N	120° 35' 15.47" E
64	Pudong	Kapangan	16° 40' 2.15" N	120° 35' 22.03" E
65	Pudong	Kapangan	16° 40' 8.14" N	120° 35' 31.46" E
66	Pudong	Kapangan	16° 40' 13.60" N	120° 35' 39.19" E
67	Pudong	Kapangan	16° 40' 21.83" N	120° 35' 45.19" E
68	Pudong	Kapangan	16° 40' 25.15" N	120° 35' 48.49" E
69	Beleng-Belis	Kapangan	16° 40' 31.75" N	120° 35' 53.87" E
70	Beleng-Belis	Kapangan	16° 40' 40.17" N	120° 35' 56.33" E
71	Beleng-Belis	Kapangan	16° 40' 43.17" N	120° 35' 59.53" E
72	Badeo	Kibungan	16° 40' 53.84" N	120° 36' 5.41" E
73	Badeo	Kibungan	16° 41' 6.06" N	120° 36' 13.72" E
74	Badeo	Kibungan	16° 41' 29.19" N	120° 36' 28.58" E
75	Badeo	Kibungan	16° 41' 52.06" N	120° 36' 37.44" E
76	Badeo	Kibungan	16° 41' 58.86" N	120° 36' 38.07" E
77	Badeo	Kibungan	16° 42' 7.51" N	120° 36' 40.25" E
78	Badeo	Kibungan	16° 42' 16.87" N	120° 36' 46.08" E
79	Tacadang	Kibungan	16° 42' 39.05" N	120° 36' 51.57" E
80	Tacadang	Kibungan	16° 42' 51.97" N	120° 36' 55.02" E
81	Tacadang	Kibungan	16° 43' 8.63" N	120° 36' 59.27" E
82	Tacadang	Kibungan	16° 43' 22.79" N	120° 37' 3.11" E
83	Tacadang	Kibungan	16° 43' 42.96" N	120° 37' 6.33" E

84	Tacadang	Kibungan	16° 43' 50.45" N	120° 37' 13.16" E
85	Tacadang	Kibungan	16° 44' 3.58" N	120° 37' 12.29" E
86	Tacadang	Kibungan	16° 44' 17.48" N	120° 37' 13.23" E
87	Tacadang	Kibungan	16° 44' 32.20" N	120° 37' 15.07" E
88	Tacadang	Kibungan	16° 44' 35.80" N	120° 37' 14.93" E
89	Tacadang	Kibungan	16° 44' 46.89" N	120° 37' 14.25" E
90	Tacadang	Kibungan	16° 45' 3.16" N	120° 37' 15.26" E
91	Tacadang	Kibungan	16° 45' 23.27" N	120° 37' 16.46" E
92	Tacadang	Kibungan	16° 45' 45.77" N	120° 37' 18.78" E
93	Kayapa	Bakun	16° 46' 8.22" N	120° 37' 20.05" E
94	Kayapa	Bakun	16° 46' 36.03" N	120° 37' 23.42" E
95	Kayapa	Bakun	16° 46' 55.74" N	120° 37' 23.72" E
96	Kayapa	Bakun	16° 47' 28.60" N	120° 37' 28.00" E
97	Kayapa	Bakun	16° 47' 49.96" N	120° 37' 30.67" E
98	Kayapa	Bakun	16° 48' 3.71" N	120° 37' 32.90" E
99	Kayapa	Bakun	16° 48' 34.63" N	120° 37' 37.91" E
100	Kayapa	Bakun	16° 48' 52.41" N	120° 37' 39.52" E
101	Kayapa	Bakun	16° 49' 26.30" N	120° 37' 40.58" E
102	Sinacbat	Bakun	16° 49' 43.37" N	120° 37' 42.93" E
103	Sinacbat	Bakun	16° 50' 8.05" N	120° 37' 45.87" E
104	Sinacbat	Bakun	16° 50' 26.08" N	120° 37' 46.96" E
105	Sinacbat	Bakun	16° 50' 38.69" N	120° 37' 49.10" E
106	Sinacbat	Bakun	16° 50' 59.74" N	120° 37' 49.38" E
107	Apang	Bakun	16° 51' 21.77" N	120° 37' 53.83" E
108	Sinacbat	Bakun	16° 51' 37.86" N	120° 37' 55.69" E
109	Bagu	Bakun	16° 51' 52.34" N	120° 37' 59.46" E
110	Bagu	Bakun	16° 52' 15.17" N	120° 38' 2.45" E
111	Bagu	Bakun	16° 52' 43.38" N	120° 38' 9.77" E
112	Bagu	Bakun	16° 53' 9.41" N	120° 38' 16.50" E
113	Bagu	Bakun	16° 53' 16.86" N	120° 38' 19.82" E
114	Bagu	Bakun	16° 53' 32.14" N	120° 38' 27.94" E
115	Bagu	Bakun	16° 53' 44.53" N	120° 38' 36.13" E
116	Bagu	Bakun	16° 53' 59.83" N	120° 38' 49.01" E
117	Bagu	Bakun	16° 54' 10.53" N	120° 39' 3.30" E
118	Bagu	Bakun	16° 54' 19.64" N	120° 39' 17.82" E
119	Bagu	Bakun	16° 54' 26.09" N	120° 39' 32.57" E
120	Bagu	Bakun	16° 54' 30.48" N	120° 39' 46.74" E
121	Bagu	Bakun	16° 54' 32.95" N	120° 39' 57.75" E
122	Bagu	Bakun	16° 54' 37.72" N	120° 40' 17.45" E
123	Bagu	Bakun	16° 54' 39.20" N	120° 40' 44.43" E
124	Bagu	Bakun	16° 54' 40.54" N	120° 41' 4.92" E

SECTION 3. Political/Administrative Jurisdiction. The political/administrative jurisdiction of the proposed Upper Amburayan River System WQMA encompasses the following areas:

Province	City/Municipality	Barangays	
Benguet	Atok	Abiang	Paoay
		Caliking	Pasdong
		Cattubo	Poblacion
		Naguey	Topdac
	Bakun	Ampusongan	Kayapa
		Bagu	Poblacion
		Dalipey	Sinacbat
		Gambang	
	Buguias	Natubleng	
	Kapangan	Balakbak	Gadang
		Beling-belis	Labueg
		Boklaon	Paykek
		Cayapes	Pudong
		Central Kapangan	Sagubo
		Cuba	Taba-ao
		Datakan	
	Kibungan	Badeo	Poblacion
		Lubo	Sagpat
		Madaymen	Tacadang
		Palina	
	Tublay	Ambassador	Daclan
		Ba-ayan	

SECTION 4. Creation of the WQMA Governing Board. A WQMA Governing Board is hereby created, which shall be chaired by the Regional Director (RD) of the Environmental Management Bureau (EMB) CAR, and shall have the following members:

- a) The Governor of the Province of Benguet or his/her duly authorized representative;
- b) The Mayors of the following Municipalities or their duly authorized representative:
 - 1) Municipality of Atok, Benguet
 - 2) Municipality of Bakun, Benguet
 - 3) Municipality of Buguias, Benguet
 - 4) Municipality of Kapangan, Benguet
 - 5) Municipality of Kibungan, Benguet
 - 6) Municipality of Tublay, Benguet
- c) The Chairman of the Regional Development Council, CAR or his/her duly authorized representative;
- d) The Regional Director or duly authorized representative from the following government offices in CAR:
 - 1) Department of Environment and Natural Resources (DENR);
 - 2) Department of Agriculture (DA);
 - 3) Department of Public Works and Highways (DPWH);
 - 4) Department of Health (DOH);
 - 5) Department of the Interior and Local Government (DILG);
 - 6) Department of Tourism (DOT);

- 7) National Economic Development Authority (NEDA);
 - 8) National Commission on Indigenous Peoples (NCIP);
 - 9) National Irrigation Administration (NIA);
- e) The Regional Director of EMB Region 1 or his/her duly authorized representative;
 - f) Duly authorized representative from the National Water Resources Board (NWRB);
 - g) Duly authorized area representative from the following sectors:
 - 1) Duly registered Non-Government Organizational/Local Peoples' Organization/Civil Society involved in Natural Resource Management or Environmental Concerns
 - 2) Water Utility
 - 3) Business/Industry
 - 4) Academe

The Board may also invite representatives from other agencies/institutions to participate in the deliberations of the Board as needed.

The terms of the Governing Board shall be governed by DAO 2005-10. The Local Chief Executives and Heads of Offices may appoint/authorize their respective representatives to the Board, provided that he/she is authorized to make commitments on behalf of the office he/she represents. Provided, further, that the LGU representatives in other WQMA shall also serve as representative in the Upper Amburayan River System WQMA.

Representatives from business/industry sector, and peoples' organizations/ non-government organizations/civil society, and academe shall be designated in accordance with the procedure and requirements laid down in DAO 2005-10.

SECTION 5. Functions of the Governing Board. The Governing Board shall have the following functions:

- a) Formulate the Governing Rules that will ensure effective management of the WQMA Governing Board;
- b) Elect other officers and create working committees within the Board that are deemed necessary for the effective implementation of WQMA policies, programs, and activities;
- c) Review the initial WQMA Action Plan prepared by the EMB CAR and draft a common and integrated compliance plan. The Board shall consequently prepare and adopt an Action Plan for the succeeding periods to be submitted to the EMB CAR for review and for submission to the DENR;
- d) Together with EMB CAR, assist the Local Government Units in preparing the LGU Compliance Scheme to implement the WQMA Action Plan and drafting local legislation to protect Upper Amburayan River System and promote overall environmental improvement in the WQMA;
- e) Monitor and facilitate LGU compliance with the WQMA Action Plan by the local government units;
- f) Formulate strategies to harmonize policies/regulations/local legislation necessary for the effective implementation of R.A. 9275 in accordance with those established under the Integrated Water Quality Management Framework;

- g) Recommend local and national policies that will protect the water quality of Upper Amburayan River System;
- h) Coordinate relevant activities among all its members, and facilitate resolution of conflicts;
- i) Undertake complementary interventions for non-point sources, considering their greater contribution to pollution;
- j) Undertake projects that will complement national and local initiatives for water pollution control;
- k) Solicit financial and non-financial support from other parties, both local and international, in accordance to R.A. 9275 and DAO 2013-15 and subject to other existing applicable regulations;
- l) Initiate and/or coordinate information dissemination activities pertaining to Upper Amburayan River System WQMA;
- m) Prepare and publish on a regular basis, a Water Quality Status Report for the WQMA and submit a copy thereof to the EMB CAR and to the EMB Central Office for consolidation in the National Water Quality Status Report;
- n) Manage efficiently and judiciously the Area Water Quality Management Fund.

SECTION 6. Governing Rules. The Governing Board shall formulate its own Governing Rules based on applicable and pertinent laws, policies, rules and regulations. Based on its Governing Rules, the Governing Board may elect at least one Co-chair, create working committees as may be necessary to carry out the Board's functions, and designate their respective chairs.

SECTION 7. Meetings. The Governing Board shall meet quarterly or as often as may be required pursuant to its Governing Rules.

SECTION 8. Technical Working Group and Technical Secretariat. The Governing Board, pursuant to DAO 2005-10 and under the governing rules, shall form a Technical Working Group (TWG) or Committees to ensure broad-based participation of all stakeholders in the Governing Board.

The Governing Board shall likewise create a Technical Secretariat of the WQMA which shall be based at the EMB CAR.

SECTION 9. Multi-Sectoral Group. In accordance with DAO 2005-10, the Governing Board shall create a Multi-Sectoral Group for water quality monitoring and surveillance network, drawing membership from representatives nominated by the members of the Governing Board. Said group shall augment and complement monitoring and reporting efforts of the EMB CAR.


SECTION 10. Re-designation of WQMA. When necessary, and only after undertaking necessary studies and conducting consultations with relevant local government authorities, the Secretary of the DENR, upon recommendation of the EMB, shall revise the designation of WQMA, re-adjust its boundaries or reconstitute its membership for adequate representation.

SECTION 11. Amendments and Revisions. Amendments or revisions of any of the provisions hereof shall be made only, upon consultations with the concerned stakeholders in

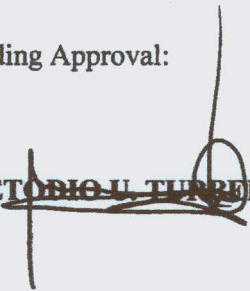
accordance with existing policies on the matter, and subject to the written approval of the parties thereto.

SECTION 12. Separability Clause. Should any provision of this Order be subsequently declared invalid or null and void, the validity of the other provisions not affected shall not be impaired and shall remain to be in full force and effect.

SECTION 13. Effectivity. This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and its registration with the Office of the National Administrative Register (ONAR).


ROY A. CIMATU
Secretary

Recommending Approval:


ENGR. METODIO U. TURBELLA
Director



Upper Amburayan River System WQMA

